

Capacitive Relay Sensor DOL 44R-33 Series

The DOL 44R-33 capacitive relay sensor series is designed for general detection of feed, grain and solids.



TYPICAL APPLICATIONS

A capacitive relay sensor is typically used as empty, full and level indicator in tanks, silos and containers. The powerful integrated relay means that it can control many functions directly.

THE DOL 44R-33 SERIES

The DOL 44R-33 series of capacitive relay sensors from dol-sensors are sturdy and easy to operate.

Two trimmers make it easy to change settings of two product parameters, depending on the model.

A red LED clearly indicates the current status of the relay sensor

FUNCTIONAL DESCRIPTION

DOL 44R-33 is available with different functions.

Delayed disconnection – when the load stops, the time delay starts:

- Fixed time or
- Time adjustable on trimmer

Delayed connection – when the load stops, the time delay starts:

- Fixed time or
- Time adjustable on trimmer

Sensitivity:

- Fixed distance or
- Distance adjustable on trimmer

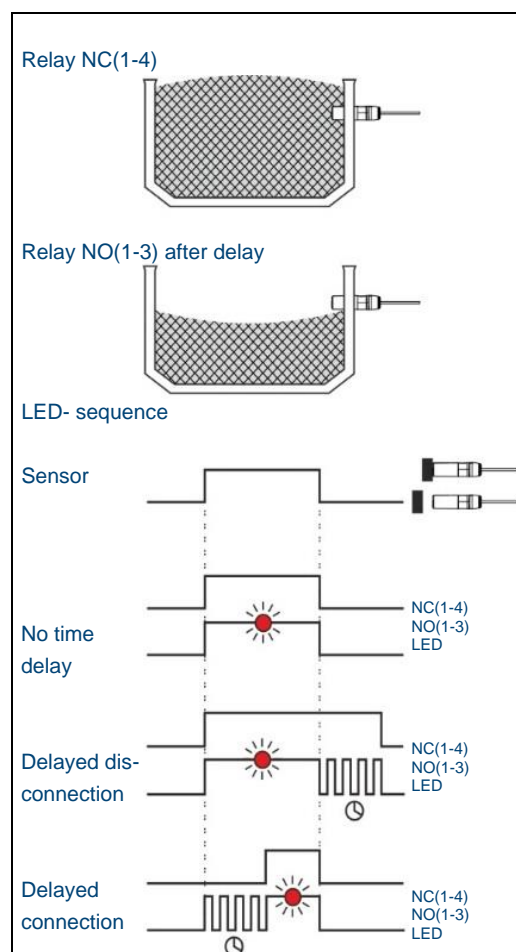
MaxRunTimer:

- Settings on the trimmer: Off, Period 1, Period 2

In contrast to the standard version DOL 44R-33, DOL 44RH-33 has a controllable heating element built in. This prevents condensation in cold environments.

The actual functionality of the sensor is indicated on the product label.

See www.dol-sensors.com for further information



TECHNIQUE

The DOL 44R-33 series features a built-in powerful relay with switch function. The sensors are available in two variants with the following voltage range:

10 - 30 V AC/DC

90 - 265 V AC

RELIABILITY

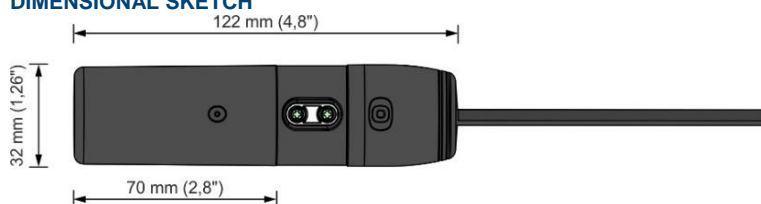
The use of electronic rather than mechanic switches ensures a unique reliability, particularly as the electronics are completely encapsulated in special plastic, which provides maximum protection against humidity and other external influences in harsh environments.

The sensor is CE, C-UL and UL approved and has a high immunity to noise from electric communication (i.e. from a mobile phone) and transients (i.e. from motors and contactors). This makes the sensor very reliable.

BUILDING-IN

DOL 44R-33 is easily installed using a PG36 plastic screwed flange, item no. 140100.

DIMENSIONAL SKETCH



TECHNICAL DATA

Supply voltage:	10 - 30 V AC/DC and 90 - 265 V AC
Power consumption:	1.5VA or 16VA with heating element
Frequency:	47 - 63 Hz
Relay switch max. voltage:	250 Volt AC
Relay switch max. power:	Ohms load: 5 A Inductive load: 2 A
Safety:	Relay switches and supply voltage are galvanic separated. Test voltage 4 kV AC
*Distance of activation:	Adjustable 0 - 15 mm depending on material. Factory setting for grain
*Time delay:	Adjustable 0-600 sec.
Protection class:	IP69k. NEMA 1, 3, 4, 6, 12, 13
Surrounding temperature, operation:	-20 °C - +70 °C (-4 °F - +158 °F)
Surrounding temp., oper. USA and Canada:	-20 °C - +65 °C (-4 °F - +149 °F)
Surrounding temperature, storage:	-30 °C - +80 °C (-22 °F - +176 °F)
Length:	122 mm (4 ³ / ₄ ")
Diameter:	Max. 32 mm (1 ¹ / ₄ ")
*Cable:	5 x 0.5 mm ² (5 x AWG20) 2 m (6.6 feet)
Weight incl. cable:	150 g (5,3oz)
Accessories, supplied:	Instructions & adjusting screwdriver
Approvals:	CE, C-UL & UL

* Optional - can be changed/selected as preferred. See the current functions on the product label. For more information: www.dol-sensors.com

* Contact dol-sensors if you have special requirements